Instructional Technology Newsline

Instructional Technology Staff
 (573) 751-8247
http://www.dese.state.mo.us/divimprove/instrtech/
newsletters

◆ Deborah S. Sutton, Director

◆ Claranne Vogel, Supervisor

◆ Lisa Walters, Library Media and
 Technology Consultant

◆ Rosalyn Wieberg, Supervisor

◆ Shirley Brumley, Administrative
 Assistant

◆ Instructional Technology Update

In the June-July 2002 issue of Converge magazine, editor-in-chief Bernard Percy relates a discussion he had with a friend about what defines a great teacher. He listed a dozen qualities and attributes and quoted Chauncey Veatch, the 2002 national Teacher of the Year, who believes "A great teacher is dream maker, not a dream breaker!" The editorial ends stating that placing technology in the hands of great teachers enables them to individualize and customize learning to meet the needs, interests, and potential of students.

While all so very true, the defining list can and does apply to others besides teachers. Certainly, it applies to school administrators, principals, technology coordinators, librarians, yes, even state and federal bureaucrats. As I was reading through the list, I was reminded of the many people I've met and with whom I've worked this past decade – people who continue to set high expectations for themselves and others and prevail against adversity.

While technology is a powerful tool, greatness comes from within. It is in tough times (whether they be political, economic, personal, spiritual) that these people really help set and stay the course. I applaud these many individuals who inspire us

to take the high road, believe in the impossible, and make dreams come true. I am excited about starting the new school year. I expect to meet other great teachers, hear of many more success stories, and learn of new ways that technology aids the accomplishments. - Deb

FY03 Technology Grants
Entitlement / formula grants -- The Title IID (Ed Tech Program) formula grant application is contained in the consolidated, online Federal Grants Application. Districts must coordinate these funds with state technology funds; therefore, the Title IID formula application should be filed at or near the same time as the state TAG grant application.
The **VIDEO** Program was NOT funded for FY03.
The application window is open through September 15 for both the **formula Title IID** and **TAG** grants. Both programs have a July 1 "substantially approved" provision.
TAG grants are approved for the entire formula amount; HOWEVER, the [current] reimbursement rate is 78%. Districts are cautioned not to spend all 78% of the funds this summer, in case there should be further adjustments to the appropriated allocation.
The TAG Revenue code is 5364. The Revenue Code for Title IID is 5352 and the CFDA, 84.318X.
The Ed Tech Program payments will be disbursed on the same schedule as other FGM Title Programs; the TAG payment schedule is 40% of the state funds at time of grant approval, 20% in October, 20% in January and the balance upon receipt and approval of the Final Expenditure Report (FER).
To receive final payments, FERs must be submitted by May 15. Budgets may be amended up to four times during the year. 4.   CORRECTION: The revenue code for Title IID / eMINTS grants is 5466 and CFDA number is 84.315X.

Discretionary / competitive grants – The Department's consolidated application for No Child Left Behind (NCLB) programs was approved and the Grant Award Notification for the Ed Tech Program received in mid-July. Funding set aside for competitive grants expands the eMINTS Program into 40 new districts.
All **eMINTS** and **IDL** second-year Implementation grants have received final approval.
IDL are approved at the likely rate of reimbursement, currently set at 78%. Districts are cautioned not to spend all 78% of the funds this summer, in case there should be further adjustments to the appropriated allocation.
The IDL Revenue code is 5364. The eMINTS Revenue Code is 5352 and the CFDA, 84.318X.
The eMINTS grant payment schedule is 75% of the state funds in September and the balance upon receipt of the FER.
The IDL payment schedule is 40% of the state funds at time of grant approval, 20% in October, 20% in January and the balance upon receipt and approval of the FER.
To receive final payments, FERs must be submitted by May 15. Budgets may be amended up to four times during the year. 4.   CORRECTION: The revenue code for Title IID / eMINTS grants is 5466 and CFDA number is 84.315X.

All Programs **–** Instructional Technology programs have certain requirements that districts must meet to be eligible for funding.
Title IID, E-rate, and TNP participants must meet requirements set forth by the Children's Internet Protection Act (CIPA) of 2000, as detailed in the CIPA section below.
Title IID Program grantees must spend at least 25% of the funding on technology professional development activities.
TAG Program grantees must spend an amount equal to 20% of the state funds on technology professional development. This may include federal, state, and local funds.
All programs require district to have locally-adopted and state-approved technology plans, as detailed in the planning section below.

Children's Internet Protection Act (CIPA) Requirements
CIPA requires any institution that receives federal funding (e-rate and/or Title IID programs) to install blocking and filtering software on computers that access the Internet. In Missouri, this means virtually every district, as MOREnet files a statewide e-rate application. Other requirements state that a district must have an Internet use policy that addresses filtering solutions, and the community must be informed of the policy and filtering solutions. For more details about the Act, compliance requirements, and filtering options, visit the Consortium for School Networking (CoSN) web site at http://www.cosn.org/initiatives/.

District Technology Plan Requirement
Districts have long been required to have technology plans for participation in the TAG grant and e-rate programs. NCLB poses new requirements for local plans, which must be in place by June 30, 2003.
Only those Missouri district plans evaluated since January 2003 meet the new standards.
The next review of district technology plans is scheduled for April 2003. According to our records over 400 districts will need technology plans approved for e-rate; over 90% will need plans approved for Title IID.
Visit http://www.dese.state.mo.us/divimprove/instrtech to review the new state plan, use the District Technology Planning resources, follow the new scoring guide, make revisions, and submit the revised plan for state approval. Complete a

District Technology Plan Review/Approval form, attach it to the plan, and mail to Instructional Technology by March 31, 2003.

Please contact the Instructional Technology office at 573-751-8247 if you have any questions regarding these matters.

e-rate Program
This week, the Schools and Libraries Division (SLD) issued the 8th wave of letters for Year 2002. This wave committed over $45 million in almost 600 letters. The funding associated with the wave includes funding for PRIORITY ONE (telecommunications and Internet access) services ONLY. Funding for internal connections will be delayed until SLD is able to determine the funding available for internal connections. Schools and libraries, eligible for discounts below 80%, are being advised that their requests must be denied. There is uncertainty whether funds will be sufficient to fully fund all approved internal requests with discount percentages of 90%.

To date, the SLD has committed $686 million in over 23,000 letters. Over $550 million is earmarked for telecommunications and almost $134 million for Internet access. Districts and school buildings account for approximately 90% of the funding. The discount band of 70-79% consumes about one-fourth of the funding.

Census of Technology
Instructional Technology recently developed item definitions, directions, and help assistance for the Census of Technology (Screens 30 and 31) – to be included in the Department's 2002-03 Core Data Collection System Manual. We tried to address the questions frequently asked, such as "what is a multimedia-equipped computer?" While late in coming, the directions and definitions should help those new to entering COT data and help assure consistent data reporting across all districts.

◆ **Opening Doors Through Technology: 2002 Missouri Educational Technology Conference**
October 6-8, Tan-Tar-A
--Submitted by Eric Nicklas, Program Manager, K-12 /Technology Network Program, MOREnet
http://www.more.net/services/conferences/fall2002/

New in 2002:
Register online August 12-September 20 (complete schedules, session descriptions and registration information are now available on the conference website)
Conference programs will be available at registration (no advance mailings)
Payment and confirmation information
Payment must be received within five working days of the submission date of your online registration or the registration will be cancelled.
Registrants will receive e-mail confirmation after MOREnet receives payment.
Types of payment accepted: Purchase Order of Credit Card (Visa, Mastercard & Discover) only.
Monday evening reception/hors d'oeuvres in vendor area offers opportunities for networking with colleagues and vendors
Featured keynote speakers: Ian Jukes and Doug Johnson

Ian Jukes

Ian Jukes has been a teacher, an administrator, writer, consultant, university instructor and keynote speaker. As the Director of the InfoSavvy Group and the Committed Sardine website, he works extensively with school districts, businesses, community organizations and other institutions to help shape preferred futures.
Ian is the creator and co-developer of TechWorks, the successful K-8 technology framework; together with his wife Anita Dosaj, he was the catalyst of the NetSavvy and InfoSavvy information literacy series; he has been a Contributing Editor for both the Audio Education Journal and Technology and Learning magazine; and is now the editor of The Committed Sardine E-Mailer, an electronic newsletter that goes out to more than 7,000 subscribers weekly. His two most recently published books are *Net.Savvy: Building Information Literacy for the Classroom*, co-authored with Anita Dosaj and Bruce Macdonald, and *Windows on the Future*, co-authored with Ted McCain. Corwin Press publishes both books.

Ian is an educator first and foremost. His focus has consistently been on the compelling need to restructure our institutions so they become relevant to the current and future needs of children. His rambunctious, irreverent and highly-charged presentations emphasize many of the practical issues related to ensuring that change is meaningful. As a

registered educational evangelist, his self-avowed mission in life is to ensure that children are properly prepared for their future rather than society's past. As a result, his perspectives tend to focus on many of the pragmatic issues that provide the essential context for educational restructuring. Fasten your seat belts and strap on your cerebral flak jacket. Counseling can and will be provided.

Doug Johnson

Doug Johnson has been the Director of Media and Technology for the Mankato Public Schools since 1991 and has served as an adjunct faculty member of Minnesota State University, Mankato since 1990. His teaching experience has included work in grades K-12 in schools both here and in Saudi Arabia. He is the author of two books: *The Indispensable Librarian* and *The Indispensable Teacher's Guide to Computer Skills.* His regular columns appear in two journals and his articles have appeared in over thirty books and magazines. Doug has conducted workshops and given presentations for over 100 organizations throughout the United States as well as in Malaysia, Kenya, Thailand and Canada.

Visit Doug Johnson's website.

This 13th annual conference is sponsored by MOREnet and the Missouri Department of Elementary and Secondary Education. It brings together more than 1,300 participants and 100 presentations, workshops and hands-on demonstrations in the newest technology and techniques in the field. More than 100 exhibits of the latest equipment and materials also will be on display.

Conference participants are responsible for making their own hotel reservations. A special room rate of $82/night for conference attendees is available. Call Tan-Tar-A at (800) 826-8272 before September 20 to reserve rooms at the special conference rate.

For complete, up-to-date information, see MOREnet's redesigned website
http://www.more.net/services/conferences/fall2002/

◆ The National Teacher Training Institute Comes to St. Louis and Farmington

The National Teacher Training Institute (NTTI) hosted by the Ladue and Farmington School District and Kansas City Public Television will be held:
> August 1 & 2, 2002 at Ladue Middle School
> September 28, 2002 at Farmington High School

The National Teacher Training Institute (NTTI) teaches teachers how to turn their classrooms into dynamic learning labs where television, the Internet, and emerging technologies fuse into interactive, standards-based lesson plans. Each year, Public Television stations across the country partner with local school districts to provide professional development for teachers. Since its beginning in 1989 NTTI has trained more than 140,000 teachers.

At the institute participants learn the key elements of integrating instructional media, hands-on activities, video, and the Internet into classroom lessons. NTTI participant teachers receive a binder of lesson plans, a tote bag, and many other resources. A light breakfast and lunch are also provided. Teachers leave the institute confident they can create and use standards-based, media-rich lessons in their own classrooms.

Teachers can register for this innovative teacher professional development initiative by contacting Jody Evans at KCPT (toll free) 866-584-7500 or by logging on to http://www.chalkwaves.org

◆ MoDLA-TV Teacher/Facilitator/Administrator Workshop
http://www.modla.org

Date: August 5-7, 2002
SuccessLink I-TV Classroom

1111Madison Street
Jefferson city, MO

The purpose of the I-TV Workshop is to provide new or inexperienced I-TV instructors, facilitators, and administrators with a working knowledge, not only of the technology involved, but of the methods, adaptations, policies, potential problems, and opportunities afforded by two-way interactive TV instruction. There is more to I-TV than just the technology involved.

Learn how to…incorporate any learning medium into the I-TV network, encourage remote student-to-student interaction, develop appropriate I-TV classroom policies, utilize the technology to its fullest extent, anticipate problems before they occur, identify I-TV resources, and much more practical information.

Workshop Registration Fee: $100 (included a one-year MoDLA membership)
The I-TV Workshop is sponsored by MoDLA in conjunction with the Center for Occupational Research and Development (CORD), GreaterNet, and the Rural School and Community Trust. For additional information about the workshop or to register, please contact Vicki Hobbs 573-445-4940 or email vhobbs@coin.org or visit the MoDLA website at http://www.modla.org

Missouri Distance Learning Group Meets

The second annual Missouri Distance Learning Association (MoDLA) membership meeting and conference was held in Branson, MO on July 29 –30. The group attended sessions centering on a variety of distance learning topics such as virtual field trips, wireless technologies and teaching techniques for distance educators. Over 25 vendors gave the attendees a wide variety of technology options to consider as they plan for their school's future in distance learning. For more information about the event or MoDLA , check their web site at www.modla.org

Great Magazines, Articles

Getting administrators up to speed, Hiring the tech team, Data-driven decision making
http://www.techlearning.com/content/about/tl_current.html

The June 2002 issue of *Teaching & Learning* magazine includes articles on leadership, data-driven decision making and setting up information management systems for decision support, getting administrators up to speed, and tips for assembling and retaining a crack technology crew. Learn about top-10 sites for busy principals, sample questions to craft effective interviews, steps to take to conduct an information inventory and standardize data management.

Leading by Example: The High Touch High Tech Principal
http://fno.org/sum02/principal.html

In the Summer 2002 issue of *The Educational Technology Journal*, Jamie McKenzie writes about how the effective principal encourages staff to develop a standards-based, information-rich vision that can be translated into a multi-year action plan. The goal is to provide the support, the infrastructure, the staff development, the program development and all of the other resources required to translate vision into daily practice. First appearing in the May 2002 issue of the Classroom Connect Newsletter, the article emphasizes that it is not so important that principals master the latest toys and gadgets - rather that they show an appreciation for the challenges facing teachers and that they become knowledgeable about the best ways to use these tools to improve reading, reasoning, writing and communication.

Craft proposals you can take to the bank
http://www.eschoolnews.org/news/showStory.cfm?ArticleID=3901

Deborah Ward, in her July 31, 2002 *e*School News *online* article, discusses that before writing a grant, the district should spend time examining the accomplishment the district has made and set clear foals and strategies for the future. Then make a connection between the strategic plans and the proposed project and funding agent. Michael Wyland, a non-profit and volunteer sector consultant, describes seeking grants as a lot like seeking bank financing – the typical grant application has, essentially, the same elements as a well-crafted business plan. If a "written plan would appear weak to a banker, it won't look any better to a grant funding source".

◆ School Center Web Page Software
--Submitted by Charles Keyser, School Center
http://www.schoolcenter.com

Providing more useful and up-to-date information via the school's web site can be a challenge. Getting more than one or two people involved with the process can be next to impossible. So how does a school get valuable information contributed from many people, on the web, in a timely matter?

The typical solution would be to buy a copy of an HTML editor such as Microsoft's FrontPage for each staff member. There are several issues with this solution that may bog a school down, and prevent them from posting accurate up-to-date information for the community and students. Some of these issues would be the following:
Cost per machine could add up to just too many dollars. Do teachers pay for a copy for home use?
8 to 16 hours would be the average training time to train the average teacher. That is a lot of staff development dollars!
There is no easy way to administer making changes to what pages, and what pages can be accessed by the public.

Most schools already have copies of FrontPage and Netscape composer is free, but most teachers are not updating content on a regular basis with them. The reason is the user interface is not easy enough for most educators. For the educators that do understand it, it is a great vehicle for them to publish content. What about the majority of educators not currently updating content?

School Center software is a server side application that can be hosted by any school. In less than an hour any educator can master the software. The end result is over 75% of the entire school's staff will be updating content on a weekly if not daily basis. A one-time fee per school building entitles a school to unlimited copies of the software. Access can be granted from both school and home use. Teachers will be able to post homework assignments, students can have E-Lockers, secretaries can update daily announcements, and parents will have an easy and secure way to communicate directly to the school.

If it is a school goal this year to have more staff involved in the process of updating content on their web site, they should visit School Center's web site to see the other advantages to using School Center over an HTML editor for their content management.

◆ Earobics Literacy Launch
--Submitted by Linda Jonynas, Cognitive Concepts, Inc.

The Earobics Literacy Launch is a scientifically research-based, research-proven program for teaching early literacy skills (Pre-K through grade 3). Systematic and individualized instruction is provided through engaging technology and multimedia materials. It also provides support in nine languages for English Language Learners, customized staff development, and school-to-home connections, in order to develop critical early literacy skills. These skills include: phonemic awareness, phonics, vocabulary, fluency and comprehension.

◆ BrainPOP'S 250+ Online Movies
www.BrainPOP.com

BrainPOP's 250+ online movies explain Math, Science, Technology, English and Health using a unique visual style, clever language, and appealing characters. Thousands of schools across the country have already subscribed to BrainPOP.com and integrated it in their classes as part of the curriculum they deliver everyday. BrainPOP movies are also licensed by media companies and educational publishers including: McGraw-Hill, National Geographic, Yahoo!, AOL @ School, The Washington Post ...

Intrigued? Watch our movies to see what we are made of:
Math: http://www.brainpop.com/math/seeall.weml
Science: http://www.brainpop.com/science/seeall.weml
Health: http://www.brainpop.com/health/seeall.weml
English: http://www.brainpop.com/english/seeall.weml
Technology: http://www.brainpop.com/tech/seeall.weml
To get temporary unlimited access to BrainPOP movies please LOGIN with the username "present" and password "present".

We believe that there is a real opportunity to bring BrainPOP's online service to more schools of your state as it delivers multimedia content correlated to standards at a low cost, and low bandwidth requirement. For more information contact Yves Saada, Chief Operating Officer, BrainPOP at www.BrainPOP.com
Tel: 212.689.9923 x.11
Cell: 917.312.2060
Fax: 212.447.5179
yves@BrainPOP.com
115 West 30th Street - Suite 200
New York, NY 10001

BrainPOP's award-winning movies are based on Math, Science, Health, English and Technology curriculum topics for 8 to 14 year-old kids. A dynamic cast of five characters leads the user through related activities - interactive quizzes and games, comic strips, experiments, and an interactive Q&A email service for kids and teens on any topic, including personal concerns. Each month 1.5+ million kids watch BrainPOP movies and exchange messages with Tim, Moby, Cassie, Rita, Gary and Bob. BrainPOP has developed partnerships with McGraw-Hill, National Geographic, AOL, Yahoo, The Washington Post ... BrainPOP has won multiple education and media awards including; 2002 District Administration Curriculum Award, Forbes Best of the Web 2002 & 2001, The Pirelli INTERNETional Multimedia Award 2001 and The Popular Science Magazine Editor's Choice 2001.

◆ Learning With Technology
--Featuring Bucklin R-II, Laclede Co- R-I and Albany R-II

Bucklin R-II
Technology On the Move in Rural Missouri
Thanks to the Technology Literacy Challenge Fund (TLCF) the students and teachers at Bucklin R-II are becoming more technologically literate. Over the past years this small rural school has developed a mobile, wireless computer lab. With limited space and personnel to manage a full time computer classroom, the mobile lab has opened the door to a host of wonderful opportunities for the students at Bucklin, R-II to research, create presentations and documents, and increase their technology literacy.

During the first year of the project, an emphasis was placed on training teachers to use the wireless notepads and becoming more technologically literate with programs such as Word, Excel, and PowerPoint. The faculty was also trained to operate and utilize an LCD projector, Smartboard, and digital camera. By setting up a training schedule that included a large-group, formal session followed by small-group, informal sessions, teachers are able to obtain the knowledge and then have opportunities to practice and/or apply what they learned. Providing the teachers with an opportunity to collaborate and investigate technology with their peers was very successful and well received by the staff. Most of the teachers were willing to take the extra time to apply their new knowledge in their classroom.

Application of the technological knowledge and use of the notepads and other technological equipment went into full swing during year two of the project. A check-out system was established for the mobile computer lab, and the students were allowed to develop their technological skills. Also, during year two, a video editing system was obtained. A specialist with the Avio System came to the school for a four-hour training session. The opportunities for the students and teachers to create with the Avio System are unlimited. Just within the past year, more students created PowerPoint presentations for special events and organizations than ever before. Several students are excited about the possibilities of the Avio creating presentations for their events next year.

As with any new programs there are a few stumbling blocks. We have had a few problems with maintaining the access points for the wireless computer lab. The company from which they were obtained has replaced several of the access points during year two. This did create a problem with availability and access of the notepads from various areas in the building. Finally, we have decided to have an access point (hub) on the mobile cart. Therefore, a good signal can be obtained by plugging in to the local connection within the classroom.

Another challenge for the coordinators of the project has been staff usage of their technological literacy in the classroom. Each teacher has a different level of technological knowledge and comfort in using it. Providing encouragement, support, and motivation for the faculty continues to be a challenge.

Overall the Technology Literacy Project has been a fantastic program that will continue to provide the teachers, students, and community opportunities for increasing their technological literacy. Without the program, a small rural school district would still be struggling to make advances in the massive technological world.

For more information contact Cindy Roberts at croberts@bucklin.k12.mo.us

<u>Laclede Co. R-I</u>
 I grew up in rural Missouri and was lucky enough to attend a "country school." There were four grade levels in my room, with one teacher, Miss Erma. Educational tools available were a chalkboard. Some students even brought homemade paste to school. They were known to eat their paste, on occasion. Miss Erma's discipline measures consisted of the "unhappy seat," (a very tall stool located in the front corner of the classroom) of which I was well acquainted with for two years. Well, actually first grade and part of second. She finally just moved my desk up front, to the chalkboard. You see, I was a very social child and had a lot to say. Although these memories are very dear to me, teachers of that time did not have a lot of resources available to them. Our world was very small…the small town of Grovespring and the farms surrounding it. Children did not think on a global scale. Technology was not a word most people used, much less understood. My father had an eighth grade education, but worked at McDonald-Douglas as an aircraft mechanic and for the railroad in St. Louis, as a diesel mechanic (before I was born and we moved to the country).

High school graduates of today would not think of applying for either of these jobs without post-secondary education or training of some type. Graduates today will find themselves in a highly competitive job market. Just about everyone is familiar with the word technology and use several types of technology, even in rural, southwest Missouri. It may be in the form of a VCR or satellite television service. If you work at anything from a convenience store to a dairy farm, you must learn some technological skills.

Students today, as young as preschool, think on a global scale. Teachers need more than a chalkboard in our schools of today, to prepare students to successfully enter a highly competitive and technological job market. Just as students do not walk two miles to school each day, education must change with the times, as well as, the on-going advances in technology. Research shows the importance of strong math and science skills for students today. The need for stronger scores in junior high math, led to the application for a Technology Challenge Literacy Grant last year.
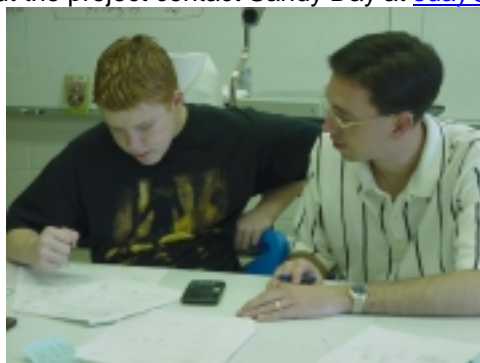
The TLCF grant provided funds for Conway Junior High to implement the Accelerated Math Program. TLCF funds were not released last year until late, due to the presidential election.   This delay, negatively affected the first year program. However, teacher training began as the software and equipment began to arrive. Teachers received extensive training on the Accelerated Math Program. The Learning Opportunities teacher and the At Risk teacher, as well as, the math teacher completed this training, in an effort to reach all students. Everything was in place when school began this year. Students are receiving math instruction at their own speed, on their own, individual levels. Accelerated Math provides individualized instruction, allowing gifted students to master skills at an accelerated pace, while those experiencing problems are given extra instruction on concepts/skills at a much slower pace. Grading and management chores are greatly reduced with this program, allowing teachers more time to work with individual students, in targeted areas. Accelerated Math keeps students actively involved in their math instruction. They received immediate feedback, by transferring their answers to a scan card and scanning it themselves. This program alone would probably have kept many students off Miss Erma's "unhappy seat!" The administration and staff are eagerly looking forward to test scores this spring to verify the positive results the Accelerated Math Program is having on student achievement. Math teacher, Jimmy Nimmo said, " Accelerated Math has been a "God send." I have seen students progress considerably compared to last year and the start of this school year. As long as the students use the system properly, individual and classroom results will be exactly what I have always hoped for."

Conway Junior High students had a computer lab that consisted of old, computers donated by Fort Leonard Wood. There were few classrooms equipped with a computer. TLCF funds provided new multimedia computers for each junior high classroom, as well as, the learning opportunities and at risk classrooms. A wireless, mobile computer lab, equipped with a laser printer is available for use in classrooms and the computer lab. The mobile computer lab makes it possible for teachers to integrate technology into daily classroom instruction. Research capabilities have increased dramatically. The computer lab now has a SmartBoard for daily classroom instruction. Junior high teachers are immersed in hands-on training and workshops made possible with TLCF funds. District workshops trained teachers in new, multimedia software, SmartBoard use, digital camera use, care and use of the mobile computer lab, and how to integrate curriculum using the technology tools provided for by TLCF funds. These teachers have "homework" each week. They have to prepare actual lessons using Microsoft Power Point, the digital camera, scanners, and the SmartBoard. These are shared at the next workshop. Students are really excited for classroom instruction to be presented in such an innovative manner. Teachers are now assigning multimedia reports to students, in place of paper/pencil reports and worksheets. I think Miss Erma would be amazed to see how drastically teaching and educational resources have changed over the past um…years.

 "The TLCF grant makes it possible for our junior high students to utilize technology in an effective and efficient way, in order to raise student achievement," stated the junior high principal. "The hardware and software make it possible to bridge the gap between subject areas for students of all abilities."

Schools located in rural Missouri have few funding resources. There are no corporations to form partnerships with. The district faces new funding challenges each year (Miss Erma only had to worry about a good supply of chalk). Grant programs like the Technology Literacy Challenge Fund are vital to the enhancement of technology education and student achievement for rural students.

If considering Accelerated Math or other projects like our TekTools, TLCF Project, please let us know how we can be of assistance. We welcome everyone to take a look at how successful our project is. Until then, I think I'll go whip up a batch of paste! For more information about the project contact Sandy Day at sday@fs1.conway.k12.mo.us

Albany R-III

The Albany R-III Special Education Department is completing the second year of the TLCF grant project. The students, teachers, and parents all proclaim the addition of much needed technology a great success. Our students have profited not only in their resource rooms but also in their regular classrooms. The regular education teachers attended the in-services and have utilized the programs for all students. A program that started with a target group of 6 teachers and 106 students quickly grew to include 30 teachers and 540 students.

Teachers have found that the reading program encourages our struggling readers to develop "automatically" in the reading process. The math program extends through high school and students at all levels compete against themselves in an effort to complete objectives. For the first time ever 100% of the students surveyed in 4th and 5th grade LOVE math. Both programs are being used before and after school in our tutoring programs.

Special Services students have learned basic computer skills including the use of word processing and email. Students with severe reading problems are thrilled with the addition of a software program that reads their textbooks to them. They read along on the screen as the software verbalizes print. They are also able to have their tests scanned in and read to them.

Our staff is busily preparing for a demonstration of our new technology for other area districts at our yearly bi-county teacher's meeting. The feeling in the room is filled with excitement as we discuss each item to be demonstrated. This grant has provided the training and support our Special Services teachers and students needed to equalize the learning opportunities for our students. We realize how fortunate we are to have been afforded this opportunity and hope that other districts pursue similar projects.

For more information about the project, contact Donna Pile at DPILE@albany.k12.mo.us

◆ Copyright Question of the Month

May an educator (e.g., administrator, classroom teacher, substitute teacher, or student teacher) other district employee, volunteer, or others download material from a web page **without a copyright notice** and incorporate the entire web page into a multimedia project?

No The assumption must be made that everything is copyrighted even in the absence of the copyright notice. Lack of a copyright notice on a work does not mean it is not protected.

Note: Most web sites contain an e-mail address that the educator may easily use to contact the copyright owner for permission to use the information on the web page.

◆ Mark Your Calendar

August 1	Newsline published online
8	FY03 eMINTS Orientation
8	MOREnet Bldg., Columbia, MO MO Rural Opportunities Council Telecommunications/Education Committee Meeting (1:15-3:30 pm) Governor's Office Building—Room 316, Jefferson City, MO
25	Newsline articles due
September 1	Newsline published online
12	MO Rural Opportunities Council Telecommunications/Education Committee Meeting (1:15-3:30 pm) Governor's Office Building—Room 316, Jefferson City, MO
October 15	TLCF Final Expenditure Reports Due

◆ Upcoming 2002 Conferences

August 4-6	Annual Cooperative Conference for School Administrators Tan-Tar-A, Osage Beach, MO
August 14-16	18th annual Conference on Distance Teaching and Learning Madison, Wisconsin
August 14-16	Learners, Laptops, and Powerful Ideas Conference Orona, Maine
October 6-8	http://www.agent.maine.edu/laptop Missouri Educational Technology Conference Tan-Tar-A, Osage Beach, MO Missouri Research and Education Network Missouri Department of Elementary & Secondary Education
October 10	Breakthrough Technologies for 21st Century The Roosevelt Hotel, New York City http://www.techlearning.com/events
October 13-15	Joint Iowa ASCD ITEC Conference Des Moines, IA www.itec-ia.org

◆ From the Mailbag

DVD STATS
http://www.usatoday.com/life/cyber/tech/2002-07-16-super-dvds_x.htm

A trade association for the video software industry has released the following statistics: DVD sales rose 69% last year over 2000, to $5.4 billion; DVD sales passed VHS tape sales, which fell 9% to $4.9 billion; renters spent $7 billion on

tapes, down 26%, and $1.4 billion on discs, up 100%; and just 25% of homes have players, with that figure expected to reach 35% expected by year's end. (USA Today 16 Jul 2002)
http://www.usatoday.com/life/cyber/tech/2002-07-16-super-dvds_x.htm

ISTE Publishes New Resource
http://www.iste.org/cgi-bin/bookstore/search.cgi?BrowseBy=SKU&Subject=M&Search=multii

The International Society for Technology In Education has published "Multiple Intelligences and Instructional Technology: A Manual for Every Mind." This new resource provides K-12 educators with specific tools for using new instructional technologies while taking into account the nine intelligences. It shows how theories of multiple intelligences can be used along with educational technology to teach all learners, including those who process new information visually, kinetically, interpersonally rhythmically, and so on. Sample lessons and classroom activities help teachers inspire success in students traveling radically different learning paths. More information is available at http://www.iste.org/cgi-bin/bookstore/search.cgi?BrowseBy=SKU&Subject=M&Search=multi

CIPA Decision Goes To The Supreme Court
http://www.ala.org/cipa/

The Justice Department has notified the Supreme Court that it plans to appeal the U.S. Court of Appeals ruling that struck down the Children's Internet Protection Act (CIPA). CIPA required public libraries to install filters on computers that access the Internet to prevent children from viewing pornography. Filtering opponents are confident that if the Supreme Court decides to hear the case, it will uphold the ruling, which found CIPA unconstitutional because the filtering programs also blocked constitutionally protected speech. Public schools and school libraries are still subject to CIPA. The American Libraries Association, a plaintiff in the original suit, maintains a CIPA information site at http://www.ala.org/cipa/

Digital Divide Debate Continues
http://www.digitalempowerment.org

Evidence is mounting that, while the gap between those who have access to computer and Internet technology and those who do not is narrowing, a significant divides still exist between high and low income households, among different racial groups, between states, and rural and urban households.

Bringing A Nation Online: The Importance of Federal Leadership --documents the necessity of continued federal leadership to expand digital opportunities for people in underserved communities. Published by the Leadership Conference on Civil Rights Education Fund and the Benton Foundation, the study offers evidence that America has a long way to go before the digital divide is bridged. It uses state-by-state analyses to demonstrate the way in which federal grants encourage partnerships and help to leverage additional investments in states and local communities. The report profiles two important federal programs that help enhance
access: the Technology Opportunities Program (TOP), administered by the Department of Commerce; and the Community Technology Center (CTC) initiative, administered by the Department of Education. Both are slated for elimination in the Bush administration's 2003 budget. The full report is online at http://www.digitalempowerment.org

Connecting Kids to Technology: Challenges and Opportunities
http://www.aecf.org/publications/pdfs/snapshot_june2002.pdf

"Connecting Kids to Technology: Challenges and Opportunities," from the Annie E. Casey Foundation, examines the demographics of the digital divide, discusses some implications of current trends, and highlights a few efforts to bridge the divide and provide a level playing field for all children. As computer ownership has become more affordable, families with children are more likely than ever to own a computer and be connected to the Internet. The Snapshot points out while all boats are rising, poor and minority kids are playing catch-up to their more affluent, white peers - both at home and in the classroom. Further, while technical infrastructure is critical, basic training is also necessary to remove barriers - such as low levels of literacy and lack of computer experience - that hinder effective use of technology by underserved youth.

Resources for Teaching Art
http://www.techlearning.com/db_area/archives/WCE/archives/gotchim.htm

The World Wide Web offers a goldmine of resources for K-12 art education. The General Resources, Standards, and Lesson Plans sections of this Web tour contain great leads.

Sally Ride Reaches Out To Girls
http://www.imaginarylinesinc.com/index.html

Sally Ride, the first American woman in space, is concerned about the ongoing under representation of women in most technical professions. To help address the problem, Ride founded Imaginary Lines with the mission of supporting and sustaining girls' natural interests in science and technology.
Source: Sally Ride Science Clubs
http://www.imaginarylinesinc.com/index.html

Children Use Colors And Patterns To Compose Music
http://www.nytimes.com/2002/05/27/arts/music/27ARTS.html

Tod Machover set out to make it easy for his young daughter to compose music, much as she wrote stories and drew pictures. The resulting piece of software, called Hyperscore, translate patterns, textures and colors drawn on a computer screen into pleasing and variable sounds.
Source: The New York Times
http://www.nytimes.com/2002/05/27/arts/music/27ARTS.html

Technology & Learning Events Announces
Tech Forum: Breakthrough Technologies for 21st Century Schools
http://www.techlearning.com/events

Be ahead of the curve. Tech Forum offers a wide range of thought-provoking and educational opportunities through intensive "how-to" presentations, interactive peer experiences, experts' perspectives, and innovative solution providers' demonstrations. You'll leave knowing how to integrate these technologies into daily, teaching, training and management tasks. Join us on Thursday, October 10th, 2002 at The Roosevelt Hotel in New York City.

Take A Varied Approach to Assessment
http://www.techlearning.com/db_area/archives/WCE/archives/bbassess.htm

Using assessment strategies as part of professional development can build confidence and enthusiasm among teachers and ultimately support the student program. http://www.techlearning.com/db_area/archives/WCE/archives/bbassess.htm

Digital Photos Online
http://www.techlearning.com/db_area/archives/WCE/archives/wesphoto.htm

This article describes several ways to share digital photographs with others on the Internet, using free online services and software available to all educators connected to the information superhighway.
http://www.techlearning.com/db_area/archives/WCE/archives/wesphoto.htm

Grand Plans and Bold Moves
http://www.techlearning.com/db_area/archives/TL/2002/06/grand.html

Cover subject Timothy Jenney, superintendent of Virginia Beach City Public Schools, talked to us about school reform and the sometimes rocky road of leadership.

Getting Administrators Up to Speed
http://www.techlearning.com/db_area/archives/TL/2002/06/speed.html

What kinds of projects are being developed to help school leaders guide with technology? Take a look at three models programs from across the nation.
http://www.techlearning.com/db_area/archives/TL/2002/06/speed.html

Internet Sites of Interest

Ask the Teacher About Writing
http://www.asktheteacher.net/index.html

Specialized online journals are described, such as creativity, picture prompt, current events, weekly review, subject journals, character journals, journal to teacher. There are even more planned…responding to music and paint your own picture are under construction. There is also a link to the Paragraph a Week site. Students can write, print it out, then save it to a disk or folder for their very own writing portfolio.

EThemes

Missouri Regions: St. Louis
http://emints.more.net/ethemes/resources/S00000714.html
Learn more about Missouri's St. Louis Region. These sites include information on museums, state parks, historic sites, and other places of interest in the St. Louis area. Watch a video of the first Missouri State Capitol. Includes a link to an eThemes Resource on the city of St. Louis and European and African settlers.

Missouri: City of St. Louis
http://emints.more.net/ethemes/resources/S00000720.html
Discover what the city of St. Louis has to offer. Explore various sites of interest, including the St. Louis Art Museum, the Zoo, the Holocaust Museum and Learning Center, Cahokia Mounds State Historic Site, the Arch, and the Muny and Fox theaters. Also learn about the history of the area and the immigrants who first moved there. Watch a Missouri Heritage video on the city's growth. There are links to eThemes Resources on the St. Louis region and the St. Louis World's Fair.

Missouri Regions: Ozark Heritage
http://emints.more.net/ethemes/resources/S00000708.html
Discover the numerous outdoor attractions in Missouri's south-central region. Find out the history of the area and view many photographs. Learn about the nation's first scenic riverway, historic Dillard Mill, Mingo National Wildlife Refuge, the Jacks Fork and Current rivers, and more. Includes links to eThemes Resources on Missouri's springs and an overview Missouri's regions.

Missouri: Springs
http://emints.more.net/ethemes/resources/S00000716.html
Learn about some of the more than 2,900 springs located in Missouri. The springs include Alley Spring, Big Spring, Round Spring, Maramec Spring, and more. Find out how a spring is formed from groundwater. Includes many photographs of these natural wonders. There are links to eThemes Resources on the water cycle.

Slavery: The Underground Railroad
http://emints.more.net/ethemes/resources/S00000715.html
These sites are about the Underground Railroad movement that helped runaway slaves escape to Canada. Learn about Harriet Tubman and other influential leaders. Listen to songs and read the lyrics that secretly told the escape route. Play a game that allows you to face the same decisions the runaway slaves faced. Includes maps and historic photographs, plus a link to an eThemes Resource on the slave trade.

Historic Documents: Emancipation Proclamation
http://emints.more.net/ethemes/resources/S00000712.html
These sites contain information about the Emancipation Proclamation signed by Abraham Lincoln in 1863. See the actual document and read about its impact on slavery and the Civil War. Includes a timeline with important events. There are links to eThemes Resources on slavery during the Civil War, the slave trade, and the Underground Railroad.

Learning Style Inventories
http://emints.more.net/ethemes/resources/S00000718.html
These sites have free online assessments for discovering students' learning styles. There are descriptions about various learning styles, including Howard Gardner's multiple intelligence theory. Also includes an article that criticizes learning style theory.

Medieval Castles
http://emints.more.net/ethemes/resources/S00000709.html
Learn about the history, architecture, and other basic facts about castles. Take a virtual tour of a historic castle, build an online weapon to protect a castle, or construct a castle model out of sugar cubes or cardboard. Includes several photographs. There is a link to an eThemes Resources on feudalism and two links to books that have a medieval setting.

Anatomy: Digestive System
http://emints.more.net/ethemes/resources/S00000658.html
These sites have information about how the digestive system works. Take a virtual tour of the inner body, watch a video, or try online games and quizzes. Most of the sites include diagrams.

Awards and Certificates
http://emints.more.net/ethemes/resources/S00000717.html
These sites have awards and certificates for students and parents that can be printed out. The awards are for different occasions such as attendance, academic achievement, sportsmanship, lost tooth, appreciation, birthday, Mother's Day,

Father's Day, and more. Some sites let you design the award and include a personal message. Other sites allow you to print awards with students' names on them.

Missouri Regions: Ozark Mountain
http://emints.more.net/ethemes/resources/S00000719.html
These sites are about the Ozark Mountain region in southwest Missouri. Find out which famous Civil War battles took place here. The region is also noted for its lakes and the major tourism town of Branson. View Laura Ingall Wilder's home, take a virtual tour of the Precious Moments Chapel, and learn about other fun destinations. Towns in the area include Springfield, Carthage, and Republic. Includes a link to an eThemes Resource that provides an overview of Missouri's different regions.

Shakespeare: His Life and Times
http://emints.more.net/ethemes/resources/S00000727.html
Learn about William Shakespeare, the places he lived, and the time period he lived in. Read the full text of some of his most popular works. Make a virtual visit to Anne Hathaway's cottage or Stratford-Upon-Avon. Try an interactive quiz to test your knowledge of Shakespeare, plus try to identify which words he invented. Visit an old Renaissance town and see what life was like in Shakespeare's time.

Shakespeare: The Globe Theatre
http://emints.more.net/ethemes/resources/S00000724.html
These sites cover the history and architecture of the old Globe Theatre and the new reconstructed one. You can take virtual tours using 3D models and VR images. There is also information about Elizabethan and Jacobean theatre. Includes a link to an eThemes Resource on Shakespeare.

Shakespeare: "Julius Caesar
http://emints.more.net/ethemes/resources/S00000722.html

These sites are about the play "Julius Caesar" written by William Shakespeare. Includes summaries, paraphrases, discussion questions, and the full text of the play. Learn more about the play's characters and try the online quiz. There are suggested classroom activities and a link to an eThemes Resource on Shakespeare.

Shakespeare: "Hamlet"
http://emints.more.net/ethemes/resources/S00000726.html

These sites have sample questions and essay ideas about this tragedy by William Shakespeare. Read the entire play online. There are lesson plans and classroom activity ideas for teachers. Includes links to eThemes Resources on Shakespeare's Life and Times and Drama for Students.

Literature: "The Adventures of Huckleberry Finn" by Mark Twain
http://emints.more.net/ethemes/resources/S00000728.html

These sites have summaries and discussion questions for this controversial book by Mark Twain. Read about the characters, themes, and symbolism in the book. Several classroom activities are included. You can also take an interactive quiz or read the entire book online. Includes eThemes Resources on Mark Twain and slavery.

Cooperative Learning Strategies
http://emints.more.net/ethemes/resources/S00000729.html
Read articles that define cooperative learning strategies and explain how to use them in the classroom. Includes cooperative learning lesson plans for a variety of subjects and grade levels.

Updated & Revised
Animals: Bees
http://emints.more.net/ethemes/resources/S00000155.html
Learn more about bees including how they are classified, their characteristics, and their role in pollination. Find out if killer bees are deadly and how you should treat a bee sting. Watch several videos including some that show bees communicating by dancing.

Animals: Snakes
http://emints.more.net/ethemes/resources/S00000029.html
Learn about the characteristics, descriptions, habitat, and behavior of snakes. There are photographs, videos, and quizzes on these reptiles. Covers a variety of species, including rattlesnakes, cobras, anacondas, and more.

Slavery: Slave Trade
http://emints.more.net/ethemes/resources/S00000464.html
These sites provide information on the slave trade that involved the United States and Africa. See maps of the sailing routes, and read first-hand accounts of slave life. Take part in a simulated slave auction.

Math: Perimeter
http://emints.more.net/ethemes/resources/S00000278.html
These sites include activities and lesson plans for measuring perimeter. Some sites include fun interactive quizzes and games.

Vincent Van Gogh
http://emints.more.net/ethemes/resources/S00000339.html
These sites are about Dutch artist Vincent Van Gogh. Learn about his impressionist and post-impressionist paintings. View many examples of his artwork and learn about his life.

Literature: Award Winners
http://emints.more.net/ethemes/resources/S00000260.html
These sites are about children's and young adult's literature awards. Includes information about several awards such as the Newberry, Caldecott, Coretta Scott King, Pura Belpre, Michael L. Printz, Best Books for Young Adults, and more. Learn about the history of the awards and see the winners from current and previous years. eThemes Resources on the Show-Me and Mark Twain award winners are included.

Literature: Online Stories for Children
http://emints.more.net/ethemes/resources/S00000259.html
These sites have free online stories for children to read. Most stories include illustrations. There are some that have audio files so you can also listen to the story. Includes classic stories and original ones.

Math: Perimeter
http://emints.more.net/ethemes/resources/S00000278.html
These sites include activities and lesson plans for measuring perimeter. Some sites include fun interactive quizzes and games.